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## U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)
	Number	Kind Code (if known)		
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	4,269,032		Meginnis et al.	05/1981
	5,321,951		Falls, et al.	06/1994
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## FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	No
	63-309,732	✓	Japan	12/1988		
	849,255		U.K.	09/1960	X	
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## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	"A review of heat transfer data for single circular jet impingement", Jambunathan, et al., Int. J. Heat and Fluid Flow, Vol. 13, No. 2, 6/1992, pp. 106-115.		
	"Evaluation of Internal Heat Transfer Coefficients for Impingement Cooled Turbine Airfoils", Chupp, et al., AIAA 4 <sup>th</sup> Propulsion Joint Specialist Conference, 6/1968.		
	"Gas Turbine Blade Heat Transfer Augmentation by Impingement of Air Jets Having Various Configurations", Tabakoff, et al., Journal of Engineering for Power, 1/1972, pp. 51-60.		
	"Heat-Transfer Characteristics of a Single Circular Air Jet Impinging on a Concave Hemispherical Shell", Livingood, et al., NASA Publication TM X-2859, 8/1973.		
Examiner Signature	Leonard n Leo	Date Considered	9/13/02

\* substantial duplicate of US Pat. No. 5,586,866 above